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1	50	("6189138") or ("591535") or ("5850548") or ("5566294") or ("6633888") or ("6557165") or ("6437805") or ("6381654") or ("6374308") or ("6609158") or ("6496870") or ("6331864") or ("5862052") or ("5386568") or ("6308225") or ("6363485") or ("6411615") or ("6516354") or ("6433320") or ("6434740") or ("6006279") or ("6256780") or ("6678882") or ("5379432").PN.	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:21
2	4	((("6189138") or ("591535") or ("5850548") or ("5566294") or ("6633888") or ("6557165") or ("6437805") or ("6381654") or ("6374308") or ("6609158") or ("6496870") or ("6331864") or ("5862052") or ("5386568") or ("6308225") or ("6363485") or ("6411615") or ("6516354") or ("6433320") or ("6434740") or ("6006279") or ("6256780") or ("6678882") or ("5379432").PN.) and wrapper	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:23
3	595	enterprise adj java adj bean	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:24
4	382	enterprise adj javabeen	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:24
5	903	(enterprise adj (javabeen or (java adj bean)))	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:24
6	3	(enterprise adj (javabeen or (java adj bean))) near3 wrapper	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:25
7	13	(enterprise adj (javabeen or (java adj bean))) same wrapper	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:28
8	11	(javabeen or (java adj bean)) near3 wrapper	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 09:35
9	82	wrapper near3 legacy	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 10:51
11	125	distribut\$3 near3 legacy	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 11:39
12	4	(distribut\$3 adj processing) near3 legacy	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:47

13	1	component adj structure adj sequence	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:02
14	5	(pass near3 value) and serializable and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:45
15	8	(pass near3 value near3 object) and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:10
16	87	(serializ&5) and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:43
17	4	(serializ&5 near3 value) and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:44
19	54	(serializ&5 near3 object) and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 12:44
20	21	(pass near3 value) and (enterprise adj javabeen)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:23
21	87	RMI and (pass near3 value)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:23
22	3	RMI same (pass near3 value)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:25
23	45	RMI and (pass adj value)	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:26
24	5	Java and "pass-by-value"	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:26
25	0	409345.pa.	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:47
27	2	491834.ap.	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:48
26	3	409345.ap.	USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB	2004/03/17 13:48

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


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- http://archives.java.sun.com/ejb-interest/ejb-interest.log9905** You have a choice - if you deploy your client code in the same JVM as your EJB objects, then you are just making local, efficient calls. ... object references cannot be passed by value. Remember that an ... facility to pass a bean instance by-value, not an EJB ... that CORBA has pass by value semantics, there is ...
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- How would you package this.** Our practice has been to package the remote jar for EJB Jar 1 within EJB Jar 2. We also have a utility jar (non-ejb) that is used by all beans.
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16. Integrate security infrastructures with JBossSX 
The current Enterprise JavaBean and Servlet specifications omit integration between the application server and existing security infrastructures. This article describes how version 2.4 of the open... security-identity s value. Alternatively, the application assembler ... CallbackHandler interface and pass it to the ...
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17. Write a session EJB 
Enterprise JavaBeans gives us the perfect excuse to revisit our Forum application. EJB's ability to handle messy infrastructure issues will help us quickly replace the current RMI backend with a ... arguments are used to pass initial "conversational state" into the ... set to a timeout value, or 0, to indicate that ... Properties object has key/value pairs that represent any environment ...
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18. Sun ONE Application Server 7 Developer's Guide to Enterprise Java Beans Technology: Contents 
Sun Microsystems, Inc. is delivering Sun ONE e-commerce software and enterprise solutions that enable companies to compete successfully in the Net Economy. ... EJB Architecture. Value Added Features. Read-Only Beans. pass-by-reference ... About Enterprise JavaBeans. What is an Enterprise JavaBean? Types of Beans ...
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19. Key Considerations 
... To use an Enterprise JavaBean (EJB) in a JSP page, choose either ... The driver will pass all the operations to the database for execution once the batch value is reached ...
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20. <http://isocrates.cas.utk.edu/cbtlb/JAV10SE/js04.txt> 
... the resource is an Enterprise JavaBean that's used to get ... directives are used to pass information to the JSP engine ... be set to the value typed in by the user ...
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WAS EE

CORBA value type considerations

The Java language to IDL specification maps Java serializables to CORBA valuetypes (pass-by-value objects). Therefore every Java serializable to be passed between a client and server (for example, by a CORBA client as a parameter or return value for an Enterprise JavaBean) must be re-implemented in the language of the client. (The implementation for the valuetype must be defined and provided in the language runtime for both the client and the server.) Implementation of Java serializables as valuetypes in C++ or another language can be a significant development effort.

Valuetypes were introduced by the CORBA 2.3 specification and many 3rd-party ORBs do not yet implement the specification, or do not implement it fully.

To aid application development, WebSphere Application Server provides a valuetype library that contains the C++ valuetype implementation for some commonly used Java classes in the `java.lang`, `java.io`, and `java.util` packages. For example, `Integer`, `Float`, `Vector`, `Exception`, `OutputStream`, and so on. For more information about the valuetype library provided with WebSphere Application Server, see WebSphere CORBA valuetype library for C++.

Java language to IDL specification

An Enterprise JavaBean is implemented in Java, with no hint of the CORBA architecture in its programming model. The Enterprise JavaBean specification requires that the server implementation be restricted to using those Java language constructs defined as the RMI/IDL subset by the Java language to IDL specification.

By following the Java language to IDL specification, you can create CORBA clients implemented in any programming language for which there is a defined mapping, and for which an ORB supporting valuetypes is available.

When valuetypes are not supported

For languages other than Java, such as C++, the CORBA architecture is often the only viable option for accessing Enterprise JavaBeans.

For session bean interfaces that only use primitive data types, you can use generated IDL files to access the Enterprise JavaBeans even if the client ORB does not support valuetypes. However, the IDL generated from such an Enterprise JavaBean can still include valuetype declarations for exceptions or other entities.

For valuetypes, `java.lang.String` or any other serializable cannot be used in a parameter or return type. There can also be problems catching exceptions, because they contain valuetypes.

If you decide that the features supported by valuetypes are not needed, consider using the strategies outlined in Unsupported CORBA data types.

Related concepts...

Parent: General CORBA
interoperation
considerations

Language bindings

WebSphere CORBA
valuetype library for C++